

This Information Disclosure Statement is being filed:

- ☒ within three months of the filing date of a national application; within three months of the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or before the mailing date of a first Office Action on the merits. 37 C.F.R. § 1.97 (b)
- ☐ **after** three months of the filing date of a national application, or the date of entry into the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or **after** the mailing date of a first Office Action on the merits, but **before** the mailing date of a Final Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311 (whichever occurs first), and includes (37 C.F.R. § 1.97 (c):
- ☐ the Certification under 37 C.F.R. § 1.97(e) (see "Certification" below)

**OR**

- ☐ the fee of \$240 set forth in 37 C.F.R. § 1.17(p) (see "Fees" below).
- ☐ **after** a Final Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311 (whichever occurs first), but before, or simultaneously with, the payment of the issue fee, and includes the Certification under 37 C.F.R. § 1.97(e) (see "Certification" below), and the Petition Fee set forth in 37 C.F.R. § 1.17(i) (see "Fees" and "Method of Payment of Fees" below). Applicants hereby petitions for consideration of the Information Disclosure Statement submitted herewith and the accompanying references in examination of the subject patent application.

#### CERTIFICATION

- ☐ The **undersigned** hereby certifies that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- ☐ The **undersigned** hereby certifies that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

#### FEES

- ☒ **No fee** is owed by the applicant(s).
- ☐ The **IDS Fee of \$240.00** under 37 C.F.R. § 1.17(p) is enclosed herewith.

☐ The **Petition Fee of \$130.00** set forth in 37 C.F.R. § 1.17(i) is enclosed herewith.

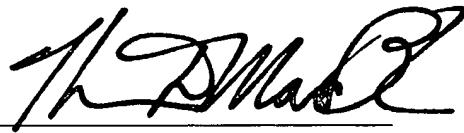
METHOD OF PAYMENT OF FEES

- ☐ Attached is a check in the amount of \$ .
- ☐ Charge Deposit Account No. 070135 in the amount of any deficiency. (A duplicate copy of this communication is enclosed for that purpose.)

In accordance with MPEP Sections 609 and 707.05(b), it is requested the document cited be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

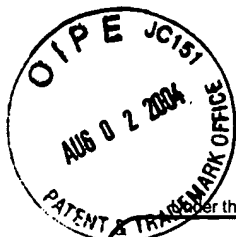
Respectfully Submitted,

Date: e/2/04



By: Thomas D. MacBlain  
Reg. No. 24,583

Gallagher & Kennedy, P.A.  
2575 East Camelback Road  
Phoenix, Arizona 85016-9225  
Tel No. (602) 530-8088  
Fax No. (602) 530-8500



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of

2

**Complete if Known**

Application Number	10/658,447
Filing Date	September 8, 2003
First Named Inventor	Crowley et al.
Art Unit	1763
Examiner Name	
Attorney Docket Number	9138-0098US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1	US- 4,212,742	07/15/1980	Solomon et al.	
	2	US- 4,756,776	07/12/1988	Halliday et al.	
	3	US- 4,797,211	01/10/1989	Ehrfeld et al.	
	4	US- 5,156,576	10/20/1992	Johnson	
	5	US- 5,635,358	06/03/1997	Wilding et al.	
	6	US- 5,726,026	03/10/1998	Wilding et al.	
	7	US- 5,922,210	07/13/1999	Brody et al.	
	8	US- 6,106,779	08/22/2000	Buechler et al.	
	9	US- 6,387,290	05/14/2002	Brody et al.	
	10	US- 6,391,541	05/21/2002	Petersen et al.	
	11	US- 6,448,047	09/10/2002	Dattagupta et al.	
	12	US- 6,455,287	09/24/2002	Jem	
	13	US- 6,488,896	12/03/2002	Weigl et al.	
	14	US- 6,534,295	03/18/2003	Tai et al.	
	15	US- 6,544,734	04/08/2003	Briscoe et al.	
		US-			
		US-			
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	10/658,447
		Filing Date	September 8, 2003
		First Named Inventor	Crowley et al.
		Art Unit	1763
		Examiner Name	
Sheet 2	of 2	Attorney Docket Number	9138-0098US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	16	BRODY et al., "A Planar Microfabricated Fluid Filter," U of Washington Technology Center, 54, 704-708, (1996).	
	17	MOORTHY et al., "InSitu Fabricated Porous Filters for Microsystems," Lab Chip, 3, 62-66, (2003).	
	18	ZYDNEY, et al., "Continuous Flow Membrane Plasmapheresis: Theoretical ....," Transactions of the American Society for Artificial Internal Organs 28, 408-412 (1982).	
	19	LICHTENBERG et al., "Sample Pretreatment on Microfabricated Devices," Talanta 56, 233-266 (2002).	
	20	RAND, R.P., "Mechanical Properties of the Red Cell Membrane," Biophysical Journal 4, 303-316 (1964).	
	21	SONKSEN et al., "Home Monitoring of Blood-Glucose," The Lancet 729-732 (4/8/1978).	
	22	DINTENFASS, L., "Clinical Applications of Blood Viscosity Factors and Functions," Biorheology 15 (5-6) 486, 1978.	
	23	CROWLEY et al., "Design of a Passive BioSeparation Microfluidic Device," JALA Vol 8 No 2 78-80 (April 2003).	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Crowley et al.

Serial No.: 10/658,447

Filing Date: September 8, 2003

Title: Integrated Apparatus and Methods for Treating Liquids

---

**CERTIFICATE OF MAILING BY EXPRESS MAIL**  
**"Express Mail" Label Number EL919128238US**

I hereby certify that this correspondence, consisting of:

1. An Information Disclosure Statement (3 pages);
2. Form PTO 1449 (2 pages);
3. Copies of 23 references; and
4. A return-receipt postcard

are being deposited in the United States Postal Service as Express Mail in an envelope addressed to:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on

8/2/04  
Date

Suzanne Shields  
Suzanne Shields

GALLAGHER & KENNEDY, P.A.  
2575 East Camelback Road  
Phoenix, Arizona 85016-9255  
Tel. No. (602) 530-8000  
Fax. No. (602) 530-8500